

## CLAIMS

I claim:

1. A detector comprising:  
a sensor to detect motion of a computer module; and  
5 a switch to manage delivery of power to a connector holding said module, wherein initial motion of said module prior to disconnect from said connector activates said switch.
2. The detector of claim 1, further comprising a sensor actuator adapted to engage a shutter assembly actuator.
3. The detector of claim 2, further comprising a shutter assembly in communication with  
10 said shutter assembly actuator and said switch.
4. The detector of claim 3, wherein actuation of said sensor activates said shutter assembly actuator and vertically adjusts said shutter assembly to alter communication of said shutter assembly with said switch.
5. The detector of claim 4, wherein said switch sends a signal to a control circuit of said  
15 connector in response to movement of said shutter assembly.
6. The detector of claim 5, wherein said control circuit provides power to said connector when said shutter assembly is in communication with said switch.
7. The detector of claim 5, wherein said control circuit removes power from said connector when communication of said shutter assembly with said switch is removed.
- 20 8. The detector of claim 1, wherein said switch is selected from the group consisting of: an optical switch, a magnetic switch, and a mechanical switch, and combinations thereof.

9. The detector of claim 1, wherein said sensor is calibrated to detect motion of said module of about 0.005".
10. The detector of claim 1, wherein tolerance of said sensor is self-adjusting.
11. The detector of claim 2, wherein said actuator is selected from the group consisting of: ratchet teeth, a pin, a spring, a magnet, an electro-magnet, and combinations thereof.
12. A method for detecting motion, comprising:
- (a) detecting motion of a computer module through a sensor; and
  - (b) disconnecting power from a connector holding said module upon motion of said module prior to disconnecting said module from said connector.
13. The method of claim 12, wherein said sensor includes a shutter assembly in communication with a power switch of said connector.
14. The method of claim 13, further comprising the step of sending a signal to a control circuit of said connector in response to actuation of said sensor.
15. The method of claim 14, wherein the step of sending a signal to said control circuit includes providing power to said connector when said shutter assembly is in communication with said switch.
16. The method of claim 14, wherein the step of sending a signal to said control circuit includes disconnecting power from said connector when communication of said shutter assembly with said switch is removed.
17. The method of claim 13, wherein said switch is selected from the group consisting of: an optical switch, a magnetic switch, a mechanical switch, and combinations thereof.

18. The method of claim 12, further comprising the step of calibrating said sensor to detect motion of about 0.005".

19. A motion detector comprising:

a sensor to mechanically detect motion of a computer module;

5 a switch to manage delivery of power to a connector holding said module, wherein initial motion of said module prior to disconnect from said connector activates said switch;

a sensor actuator adapted to engage a shutter assembly actuator; and

a shutter assembly in communication with said shutter assembly actuator and said switch to communicate motion of said module with said switch.

10 20. The detector of claim 19, wherein said actuator is selected from the group consisting of: ratchet teeth, a pin, a spring, a magnet, an electro-magnet, and combinations thereof.

Patent Application Specification